ABSTRACT OF THE DISCLOSURE

An air flow and filtration control system in the form of a headgear which is worn by a physician during a surgical procedure, a technician during an assembly process, or any other user wherein controlled air flow and air filtration is required or desired. The system includes a lightweight headgear structure which substantially surrounds the upper portion of the head of the wearer. A fan is mounted in the headgear structure and is positioned to move air relative to the headgear structure. A shroud (or hood) can be draped over and attached to the headgear structure in such a fashion as to completely cover the headgear structure and to cover at least a portion of the wearer in order to maintain sterile or controlled environmental conditions relative to the wearer. Typically, the shroud may include at least one filtration area (which may comprise the entire shroud) and a screen at the front of the apparatus for viewing therethrough. A suitable power supply, such a battery pack or the like, is used to selectively power the fan. An air flow monitoring system is mounted on the helmet. An air flow indicator and/or a battery level indicator is also mounted to the helmet in a location readily detectable by the helmet wearer.